PTO/S8/084(10-01)
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Comparison of Vicence. Substitute for form 1449A/PTO Complete if Known INFORMATION DISCLOSURE 10/624,458 **Application Number** STATEMENT BY APPLICANT July 21, 2003 **Filing Date** (Use as many sheets as necessary) **First Named Inventor** Kramer, Andrew 3766 SEP 1 1 2006 **Group Art Unit** Schaetzle, Kennedy **Examiner Name** & TRADELIAS Attorney Docket No: 279.340US3 Sheet 1 of 5

		US PAT	ENT DOCUMENTS	
Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
1//	US-2001/0047194A1	11/29/2001	Thompson, D. L., et al.	04/04/2001
	US-2002/0123769A1	09/05/2002	Panken, Eric J., et al.	12/14/2000
\neg	US-2002/0143264A1	10/03/2002	Ding, Jiang, et al.	12/06/2001
	US-2002/0183795A1	12/05/2002	Rouw, M., et al.	04/30/2001
	US-2003/0100925A1	05/29/2003	Pape, Forrest C., et al.	11/28/2001
	US-2003/0105496A1	06/05/2003	Yu, Y., et al.	12/05/2001
	US-2003/0144702A1	07/31/2003	Yu, Y., et al.	12/09/2002
_	US-2003/0144703A1	07/31/2003	Yu, Y., et al.	12/09/2002
	US-2003/0199936A1	10/23/2003	Struble, C. L., et al.	04/22/2002
	US-2004/0019365A1	01/29/2004	Ding, J., et al.	07/26/2002
	US-2004/0193223A1	09/30/2004	Kramer, A. P., et al.	12/19/2003
	US-2005/0043767A1	02/24/2005	Belalcazar, H. A.	09/15/2004
_	US-2005/0131472A1	06/16/2005	Ding, J., et al.	02/02/2005
\rightarrow	US-4,401,119	08/30/1983	Herpers, L.	02/17/1981
_	US-4,432,362	02/21/1984	Leckrone, M. E., et al.	03/08/1982
	US-4,519,395	05/28/1985	Hrushesky, W. J.	12/15/1982
	US-4,922,907	05/08/1990	Hedin, Asa, et al.	06/10/1988
	US-4,928,688	05/29/1990	Mower, M. M.	01/23/1989
	US-4,930,518	06/05/1990	Hrushesky, W J.	09/26/1988
	US-5,156,147	10/20/1992	Warren, J. A., et al.	02/05/1991
	US-5,161,540	11/10/1992	Mueller, J.	05/24/1991
	US-5,168,869	12/08/1992	Chirife, Raul	06/17/1991
	US-5,179,949	01/19/1993	Chirife, Raul	12/07/1990
	US-5,188,106	02/23/1993	Nappholz, Tibor A., et al.	03/08/1991
	US-5,197,467	03/30/1993	Steinhaus, B. M., et al.	06/22/1992
	US-5,291,895	03/08/1994	McIntyre, K M.	12/29/1992
	US-5,312,452	05/17/1994	Salo, R. W.	11/03/1992
	US-5,318,595	06/07/1994	Ferek-Petric, et al.	05/08/1992
	US-5,330,511	07/19/1994	Boute, Willem	01/19/1993
	US-5,334,222	08/02/1994	Salo, R. W., et al.	11/03/1992
	US-5,372,607	12/13/1994	Stone, K. A., et al.	06/23/1993
	US-5,413,592	05/09/1995	Schroeppel, Edward A.	03/26/2093
	US-5,417,717	05/03/1995	Salo, R. W., et al.	05/16/1994
_	US-5,454,838	10/03/1995	Vallana, F., et al.	07/26/1993
	US-5,466,245	11/14/1995	Spinelli, J. C., et al.	11/15/1994
- 	US-5,487,752	01/30/1996	Salo, Rodney W., et al.	11/15/1994
-+	US-5,514,163	05/07/1996	Markowitz, H. T., et al.	02/21/1995
-	US-5,527,347	06/18/1996	Shelton, Michael B., et al.	02/21/1995
	US-5,534,016	07/09/1996	Boute, Willem	02/21/1995
11/	US-5,540,727	07/30/1996	Tockman, B. A., et al.	11/15/1994

EXAMINER

DATE CONSIDERED (0-24-06

PTO/SB/084(10.0)
Approved for use through 10/31/2002 OMB 651-0031
US Petert & Traisment Office: U.S. DEPARTMENT OF COMMERCE;
Under the Paperwork Reduction Act of 1005, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICABLE 10/624,458 **Application Number** July 21, 2003 Filing Date (Use as many sheets as necessary) Kramer, Andrew **First Named Inventor** SEP 1 1 2006 3766 **Group Art Unit** Schaetzle, Kennedy **Examiner Name** T & TRUDEN Attorney Docket No: 279.340US3 Sheet 2 of 5

US PATENT DOCUMENTS					
Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate	
KI	US-5,544,661	08/13/1996	Davis, Charles L., et al.	01/13/1994	
7	US-5.549.650	08/27/1996		06/13/1994	
	US-5,554,177	09/10/1996	Kieval, Robert S., et al.	03/27/1995	
	US-5,562,711	11/30/1994			
	US-5,578,064	08/11/1994			
	US-5,584,868	12/17/1996	Salo, Rodney W., et al.	07/27/1994	
1	US-5,609,612	03/11/1997	Plicchi, Gianni, et al.	12/13/1995	
	US-5,626,620	05/06/1997	Kieval, Robert S., et al.	02/21/1995	
	US-5,626,623	05/06/1997	Kieval, Robert S., et al.	04/30/1996	
	US-5,628,777	05/13/1997	Moberg, S. B., et al.	07/14/1993	
T	US-5,674,256	10/07/1997	Carlson, Gerrard M.	12/19/1995	
	US-5,690,689	11/25/1997	Sholder, J. A.	03/29/1996	
	US-5,700,283	12/23/1997	Salo, Rodney W.	11/25/1996	
	US-5,713,930	02/03/1998	van der Veen, Johannes S., et al.	11/06/1996	
	US-5,713,933	02/03/1998	Condie, C. R., et al.	11/30/1994	
1	US-5,716,383	02/10/1998	Kieval, et al.	06/24/1996	
	US-5,749,906	05/12/1998	Kieval, Robert S., et al.	12/03/1996	
	US-5,800,471	09/01/1998	Baumann, Lawrence S.	10/20/1997	
	US-5,836,975	11/17/1998	DeGroot, P. J.	06/05/1997	
	US-5,836,987	11/17/1998	Baumann, L. S., et al.	03/12/1997	
	US-5,891,176	04/06/1999	Bornzin, Gene A.	10/25/1996	
	US-6,058,329	05/02/2000	Salo, R. W., et al.	05/07/1999	
	US-6,070,100	05/30/2000	Bakels, Arnoldus, et al.	12/15/1997	
	US-6,144,878	11/07/2000	Schroeppel, Edward A., et al.	01/05/1900	
	US-6,208,901	03/27/2001	Hartung, W.	03/03/1998	
	US-6,223,082	04/24/2001	Bakels, Arnoldus, et al.	01/28/2000	
	US-6,280,389	08/28/2001	Ding, Jiang, et al.	11/12/1999	
1	US-6,304,777	10/16/2001	Ben-Haim, S., et al.	05/26/1999	
	US-6,311,089	10/30/2001	Mann, B., et al.	08/20/1999	
	US-6,351,673	02/26/2002	Ding, J., et al.	09/14/2000	
	US-6,360,127	03/19/2002	Ding, J., et al.	01/20/2000	
	US-6,371,922	04/16/2002	Baumann, Lawrence S., et al.	04/07/2000	
	US-6,430,439	08/06/2002	Wentkowski, R. H., et al.	12/26/2000	
	US-6,438,421	08/20/2002	Stahmann, J. E., et al.	12/26/2000	
	US-6,449,510	09/10/2002	Albers, Bert A., et al.	04/27/2000	
	US-6,480,742	11/12/2002	Stahmann, Jeffrey E., et al.	12/26/2000	
	US-6,491,639	12/10/2002	Turcott, Robert	04/05/2000	
\top	US-6,507,756	01/04/2003	Heynen, H. G., et al.	04/03/2000	
1/1	US-6,512,952	01/28/2003	Stahmann, Jeffrey E., et al.	12/26/2000	
_#\	US-6,522,921	02/18/2003	Stahmann, Jeffrey E., et al.	12/26/2000	

DATE CONSIDERED 10-24-06 ch 2012 **EXAMINER**

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT E (Use as many sheets as necessary) SEP 1 1 2006

Complete if Known	
Application Number	10/624,458
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First Named Inventor	Kramer, Andrew
Group Art Unit	3766
Examiner Name	Schaetzle, Kennedy

	CONTRACTOR
Sheet 3 of 5	

		US PAT	ENT DOCUMENTS	
Examiner Initial	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
	US-6,522,923	02/18/2003	Turcott, Robert	02/09/2001
1	US-6,542,775	04/01/2003	Ding, J., et al.	12/07/2001
1	US-6,553,258	04/22/2003	Stahmann, J. E., et al.	12/26/2000
	US-6,597,951	07/22/2003	Kramer, Andrew, et al.	11/27/2001
	US-6,665,564	12/16/2003	Lincoln, William C., et al.	05/21/2001
1	US-6,684,103	01/27/2004	Ding, J., et al.	09/13/2002
	US-6,832,113	12/14/2004	Belalcazar, Hugo A.	11/16/2001
	US-6,856,836	02/15/2005	Ding, J., et al.	07/07/2003
	US-6,859,665	02/22/2005	Ding, J., et al.	07/07/2003
	US-6,885,890	04/26/2005	Spinelli, J. C., et al.	12/20/2001
	US-6,915,164	07/05/2005	Bradley, Kerry, et al.	04/16/2002
	US-6,937,901	08/30/2005	Zhu, Q., et al.	10/31/2001
N	US-6,963,777	11/08/2005	Lincoln, W. C., et al.	05/13/2002
V	US-7,013,176	03/14/2006	Ding, J., et al.	01/28/2003

Attorney Docket No: 279.340US3

		IGN PATENT I		
Examiner Initials;	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T ²
	DE-19720755-With English Abstract	11/12/1998	Christiansen, H.	
	EP-0474958A2	03/18/1992	Bozidar, Ferek-Petric , et al.	
	EP-0793975A2-With English Abstract	09/10/1997	Christiansen, H.	
	EP-0970721A2	01/12/2000	Stone, K. A., et al.	
	WO-2004011088A1	02/05/2004	Ding, J., et al.	
1/	WO-2004069333A2	08/19/2004	Ding, J., et al.	
W	WO-9958191A1	11/18/1999	Ding, J., et al.	

	OTHE	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
1/1		"Itamar Medical and Medtronic Announce Further Cooperation to Advance	
4//I		Diagnostic Innovation", Business Wire, pg. 1254, Full text provided by Dialog,	
		(May 9, 2000), 2 pgs	
-14		"Noninvasive MIKRO-TIP Pulse Pressure Transducer Model SPT-301", Millar	
İ		Instruments, Inc., Product Information, (2000), 1 pg.	
		ADOLPH, ROBERT J., et al., "Prolongation of isovolumic contraction time in left bundle branch block", American Heart Journal, 78(5), (Nov., 1969), 585-591	
1/		CAZEAU, S., et al., "Multisite stimulation for correction of cardiac asynchrony",	
(V		Heart, 84(6), (Dec., 2000), 579-81	

EXAMINER

DATE CONSIDERED 10-24-06

PTC/SB/084(10-01)
Approved for use through 10/31/2002, OMB 651-0031
Approved for use through 10/31/2002, OMB 650-0031

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INFORMATION DISCLOSUREE STATEMENT BY APPLICANT	Application Number	10/624,458
STATEMENT BY APPLICANT (Use as many sheets as necessary)	Filing Date	July 21, 2003
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\ ₂	Group Art Unit	3766
TEAT & TRANSPORT	Examiner Name	Schaetzle, Kennedy
Sheet 4 of 5	Attorney Docket No: 2	79.340US3

	OTHE	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		CHA, KAREN, et al., "Images in clinical medicine. Pulsus alternans", The New	
		England Journal of Medicine, 334(13), (Mar. 28, 1996), 834	L
7,		DUNCAN, SR., ALISON M., et al., "The Effect of Biventricular Pacing on Ejection	1
		and Filling Hemodynamics in Dilated Cardiomyopathy Patients With Activation	
		Disturbances: The MUSTIC Study", JACC, Abstracts Poster Session 1167-56,	
		(2001), 1 pg.	L
		HIRSCHFELD, STEPHEN, et al., "The isovolumic contraction time of the left	
		ventricle. An echographic study", Circulation, 54(5), (Nov., 1976), 751-756	
		KASS, DAVID A., "Improved Left Ventricular Mechanics From Acute VDD	
ľ		Pacing in Patients with Dilated Cardiomyopathy and Ventricular Conduction	
		Delay", Circulation, 99(12), (Mar. 30, 1999), 1567-1573	
		KOSTIS, J. B., "Mechanisms of heart sounds", American Heart Journal, 89 (4),	
		Letter to the Editor,(April 1975), 546-547	L
		LAB, M J., et al., "Pulsus alternans", Cardiovascular Research, 27(8),	
		(Aug., 1993), 1407-12	
		LEONELLI, F. M., et al., "Systolic and Diastolic Effects of Variable	
		Atrioventricular Delay in Patients With Complete Heart Block and Normal	
		Ventricular Function", The American Journal of Cardiology, 80(3), (Aug., 1997),	
-		294-298	
		LITTLE, WILLIAM C., "The left ventricular dP/dtmax-end-diastolic volume	
		relation in closed-chest dogs", Circulation Research, 56(6), (June, 1985), 808-	
		815	<u> </u>
		LITTMANN, L., et al., "Apparent bigeminy and pulsus alternans in intermittent left	
		bundle-branch block", Clin. Cardiol., 22(7), (July, 1999), 490	ļ
		MCINTYRE, K. M., et al., "A noninvasive method of predicting pulmonary-	
		capillary wedge pressure", N Engl J Med., 327(24), (Dec. 10, 1992), 1715-20	
		MCLAUGHLIN, DAVID P., et al., "Pulsus Alternans", The New England Journal	
		of Medicine, Vol. 341, No. 13, (September 23, 1999), 955	L
		RITTER, P., et al., "A Built-In System Based on the Peak Endocardial	
		Acceleration (PEA) for AV-Delay Optimization in DDDR Pacing", PACE, 20(5)	
		(Part II), (Abstract of Paper presented at EUROPACE '97), (May 1997), 1567	
		RITTER, P., et al., "Determination of the optimal atrioventricular delay in DDD	
		pacing. Comparison between echo and peak endocardial acceleration	
		measurements", Europace, 1(2), (April 1999),126-130	
		RITTER, P., et al., "New Method for Determining the Optimal Atrio-Ventricular	
		Delay in Patients Paces in DDD Mode for Complete Atrio-Ventricular Block",	
		Pace, 18, Abstact No. 237, (April 1995),855	
		SPODICK, D. H., et al., "Isovolumetric contraction period of the left ventricle.	
//		Results in a normal series and comparison of methods of calculation by	
V		atraumatic techniques", American Heart Journal, 76(4), (October 1968), 498-503	

EXAMINER L. J. Charles Date considered 10-24-06

PTO/SB084(10-01)
Approved for use through 10/31/2002. ONB 851-0031
US Petent & Tradement Office: U.S. DEPARTMENT OF COMARGREE
Under the Peperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known Substitute for form 1449A/PTO
INFORMATION DISCLOSURE STATEMENT BY APPLICANTE 10/624,458 **Application Number** July 21, 2003 Filing Date (Use as many sheets as necessary) Kramer, Andrew **First Named Inventor** SEP 1 1 2006 3766 **Group Art Unit** Schaetzle, Kennedy **Examiner Name** Attorney Docket No: 279.340US3 Sheet 5 of 5

	OTHER	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No ¹	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
21		SURAWICZ, B., et al., "Cardiac alternans: diverse mechanisms and clinical manifestations", J Am Coll Cardiol., 20(2), (Aug, 1992), 483-99	
		TEI, C., et al., "New index of combined systolic and diastolic myocardial performance: a simple and reproducible measure of cardiac functiona study in normals and dilated cardiomyopathy", <u>Journal of Cardiology</u> , <u>26(6)</u> , (December 1995), 357-66	
		WAIDER, W., et al., "First heart sound and ejection sounds. Echocardiographic and phonocardiographic correlation with valvular events", <u>The American Journal of Cardiology</u> , 35(3, (March 1975), 346-356	
		WEISSLER, A. M., "Systolic Time Intervals in Heart Failure in Man", Circulation, 37, (1968), 149-159	
		YU, YINGHONG, et al., "METHOD AND APPARATUS FOR OPTIMIZING VENTRICULAR SYNCHRONY DURING DDD RESYNCHRONIZATION THERAPY USING ADJUSTABLE ATRIO-VENTRICULAR DELAYS", U.S. Application Serial No. 11/463,176, Filed August 8, 2006 (Attorney Docket No. 279.558us2), 45 Pages	

EXAMINER

DATE CONSIDERED 10-24-06